

Gigabit Content Security Router CS-5800



Presentation Outline

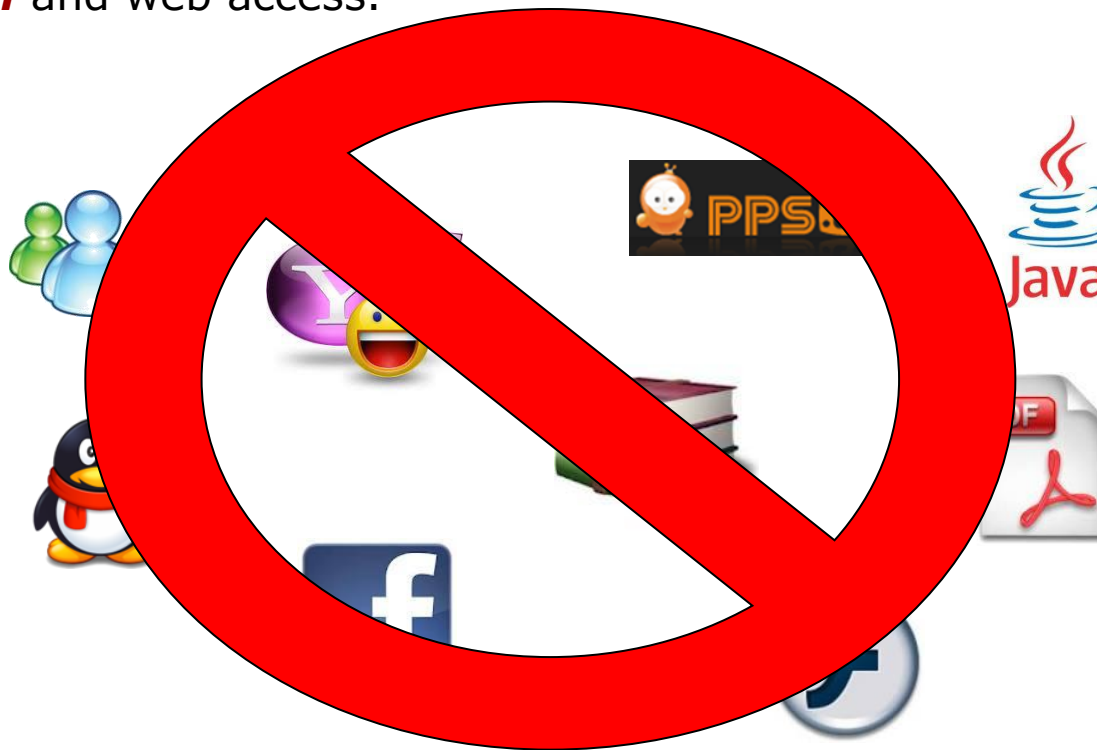
- ◆ **Product Overview**
- ◆ **Product Feature**
- ◆ **Product Application**
- ◆ **Product Comparison**
- ◆ **Appendix**



Overview

◆ What is the Content filter?

- ✓ Content filtering is the technique whereby content is blocked or allowed based on analysis of its content, rather than its source or other criteria. It is most widely ***used on the Internet*** to ***filter e-mail*** and web access.



Overview



◆ What is IPv6 ?

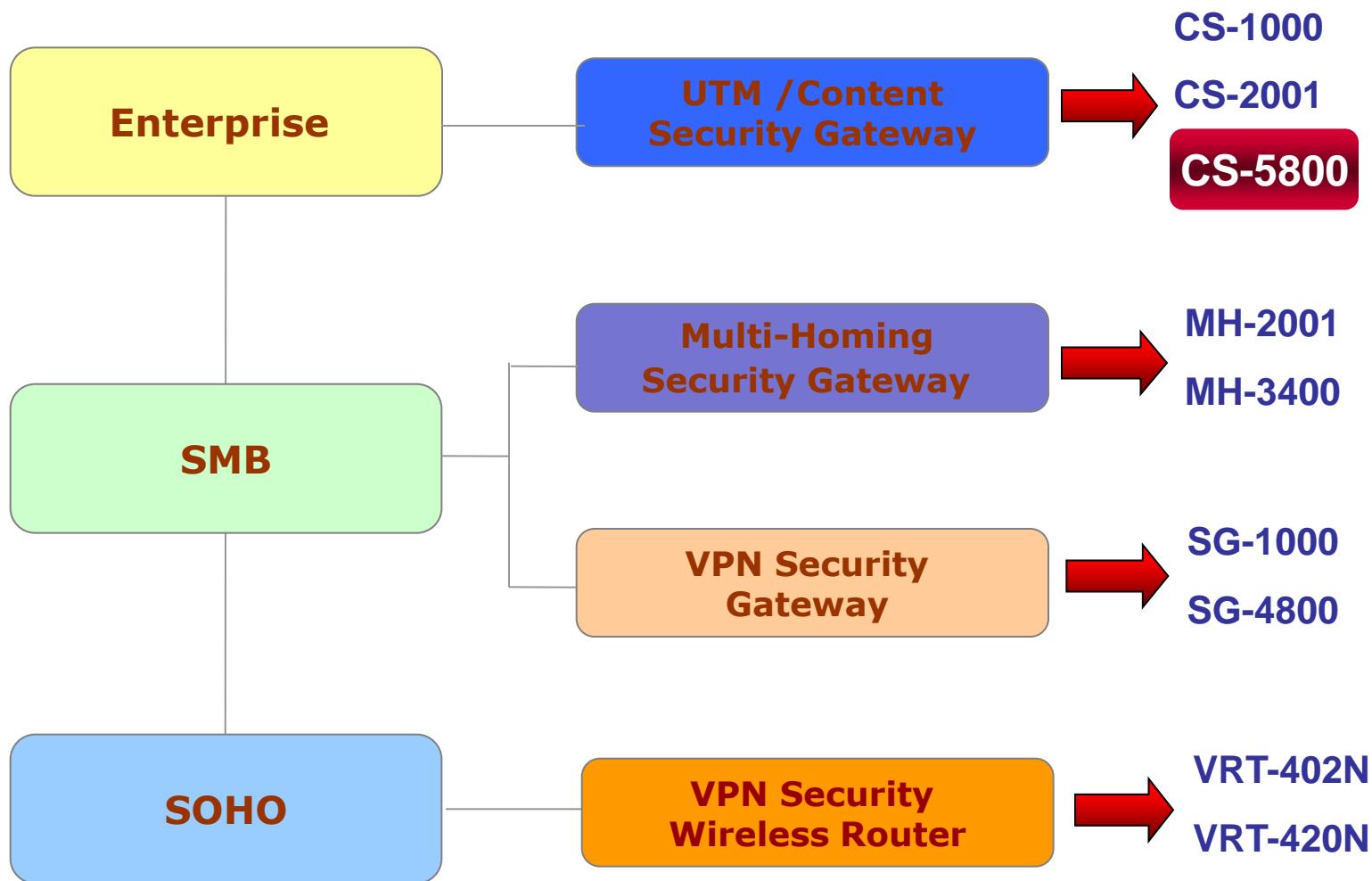
- ✓ IPv6 is the **next-generation Internet Protocol version** designated as the successor to IPv4, the first implementation used in the Internet that is still in dominant use currently.
- ✓ It is an **Internet Layer protocol** for packet-switched internetworks. The main driving force for the redesign of Internet Protocol was the foreseeable IPv4 address exhaustion.
- ✓ IPv6 has a vastly larger address space than IPv4. This results from the use of a **128-bit** address, whereas IPv4 uses only **32 bits**.

◆ Why IPv6 ?

- ✓ Nowadays, lots of **electronic products** or **mobile devices** can browse the Internet, which means the need of IP Address increases. However, the current IPv4 network infrastructure is not capable enough to provide IP Address to each single users / Clients.
- ✓ The situation forces the ISP to build up the IPv6 network infrastructure speedily.

Product Overview

◆ PLANET Security Product Classification



Product Overview

◆ PLANET Security Product Difference

- Multi-WAN load balance
- VPN function
- QoS

CS-5800

Content filter

- SPI / DoS Firewall
- Dual stack IPv6
- Full Ports Gigabit

Security

SSL VPN

SG-4800

3G/3.5G

MH-3400

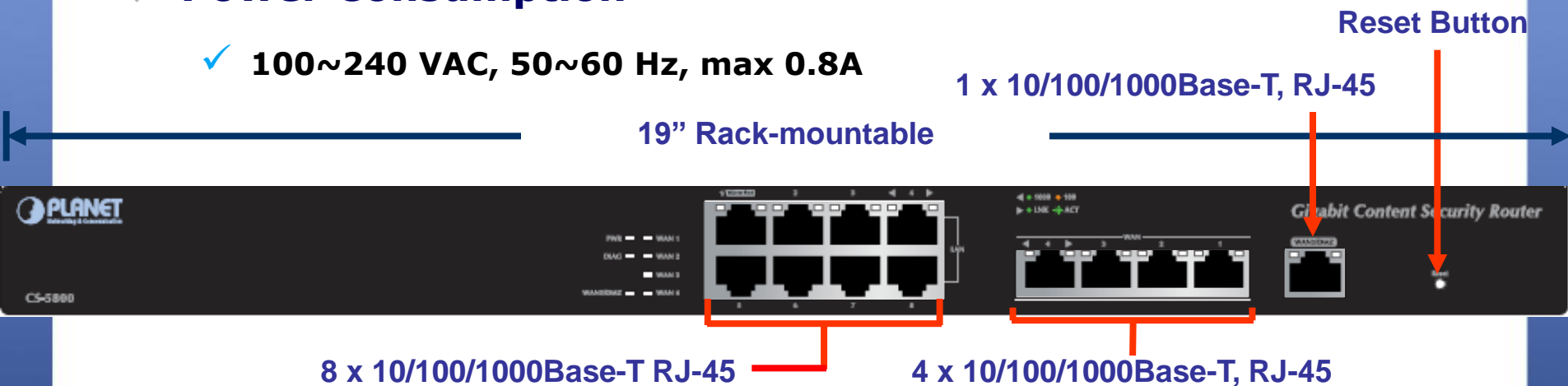
Product Overview

◆ Front Panel of CS-5800

- ✓ **8-LAN Port 10/100/1000Base-T RJ-45**
 - Port 1 configurable with LAN 1(Mirror Port)
- ✓ **4-WAN Port 10/100/1000Base-T RJ-45**
- ✓ **1-DMZ Port 10/100/1000Base-T RJ-45**
 - Configurable with WAN 5
- ✓ **1-Reset Button**

◆ Power Consumption

- ✓ **100~240 VAC, 50~60 Hz, max 0.8A**



Product Benefits

◆ Multi-WAN

- ✓ **Multi-WAN** auto line backup (Fail Over)
- ✓ Realizing **inbound / outbound** load balancing with **Multi-WAN**

◆ Performance

- ✓ All **Gigabit Ethernet port** improve Network Efficiency

◆ Smart QoS

- ✓ **Smart QoS** control the P2P and video downloading easily
- ✓ Guaranteed bandwidth **for QoS Schedule and Priority QoS**

Product Benefits

◆ Strong Protection for Network Security

- ✓ **60 PPTP/200 IPSec VPN tunnel** ensure security information transmission*
- ✓ The **built-in SPI/policy-based firewall/DoS** prevent many known hacker attack

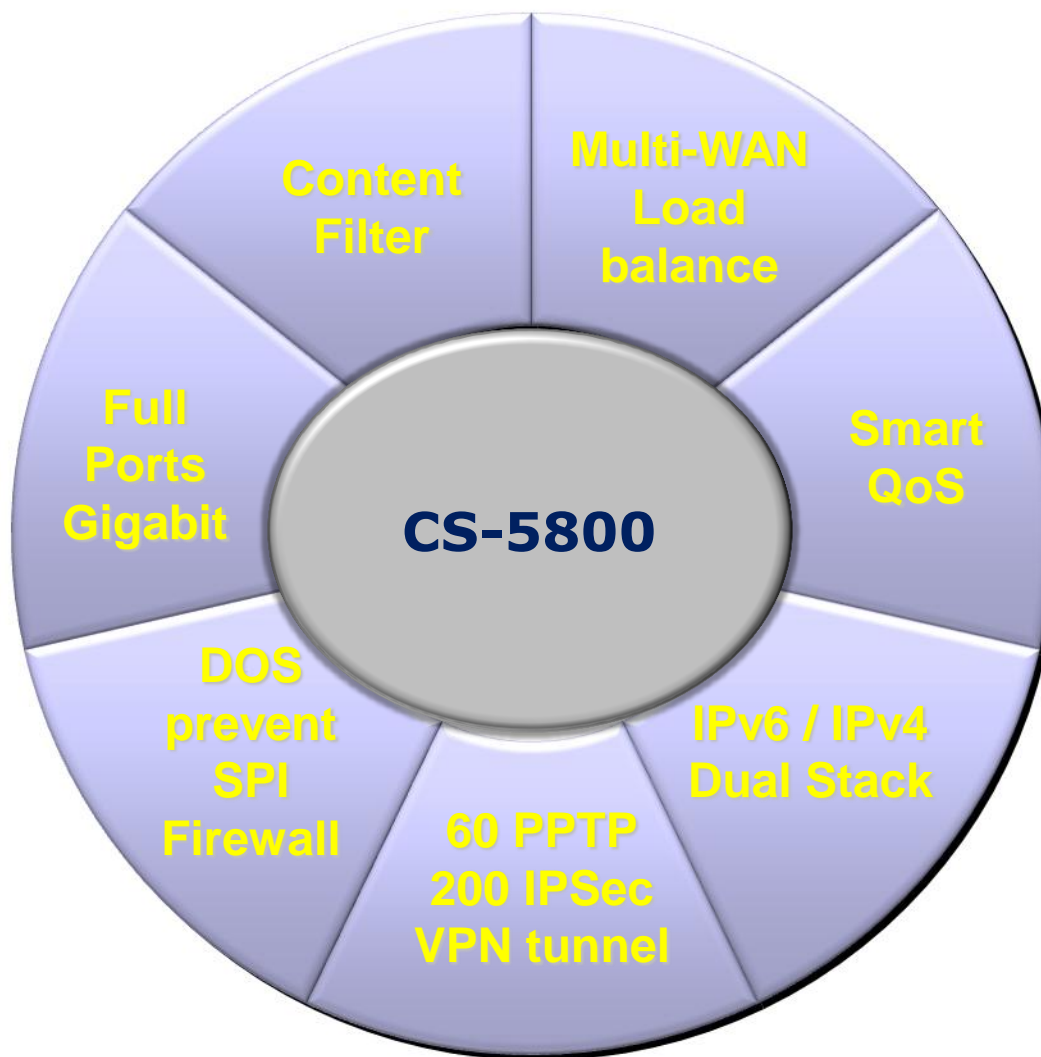
◆ Online Behavior management

- ✓ Flexible for **Content filter** include **Web Filtering** and **Application Blocking**

◆ Abundant IPv6 Support

- ✓ Meet the need for larger addressing and higher security
- ✓ **IPv4 / IPv6 Dual Stack** helps to connect to IPv6 network now and in the future

Product Key Features



Product Features – Multi WAN

◆ Hardware

✓ **8-LAN Port 10/100/1000Base-T RJ-45**

- Port 1 configurable with LAN 1 (Mirror Port)

✓ **4-WAN Port 10/100/1000Base-T RJ-45**

- *Inbound / outbound* load balancing and auto line *fail-over* with *Multi-WAN*

✓ **1-DMZ Port 10/100/1000Base-T RJ-45**

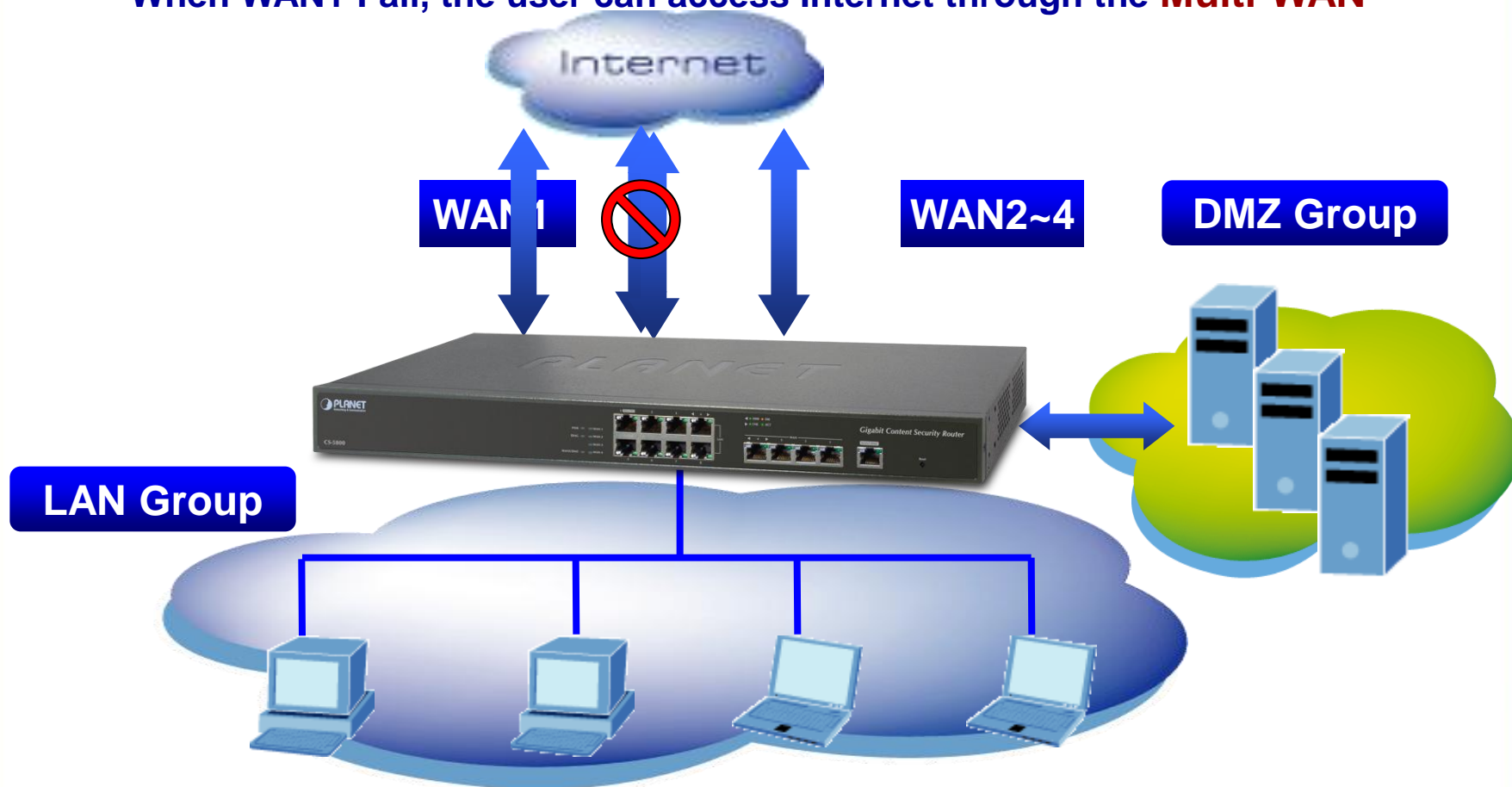
- Configurable with WAN 5

✓ **Support HA (High Available)**

Product Features 1/14

◆ Multi-WAN Fail over

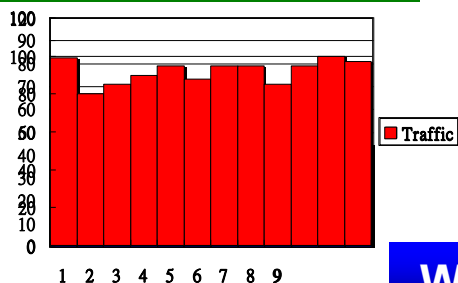
When WAN1 Fail, the user can access Internet through the **Multi-WAN**



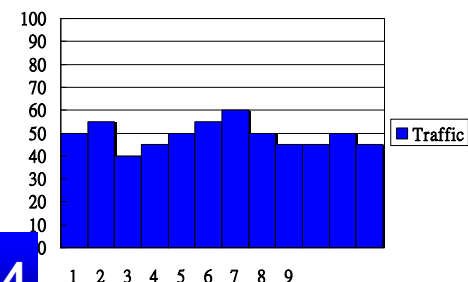
Product Features 2/14

◆ Outbound Load Balancing

WAN1 Loading



WAN2~4 Loading



Multi-WAN Ports
Network Traffic
Load Balancing

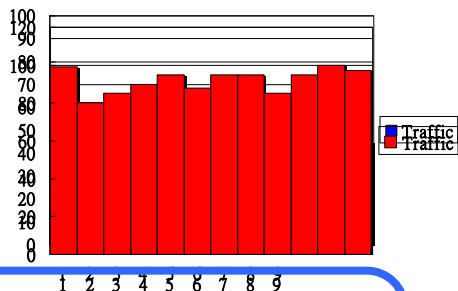
LAN Group

DMZ Group

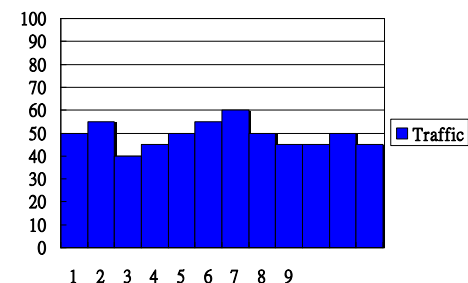
Product Features 3/14

◆ Inbound Load Balancing

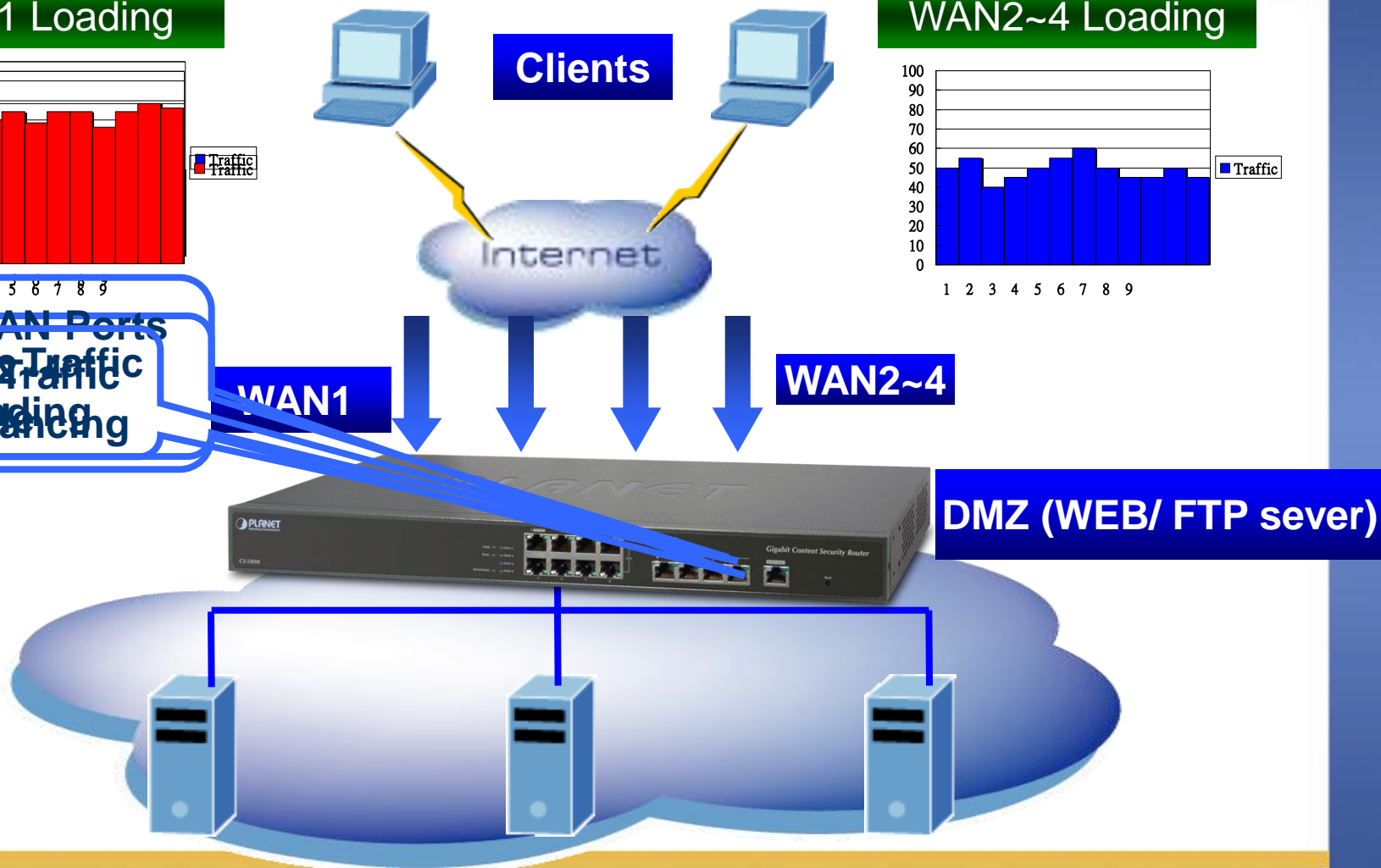
WAN1 Loading



WAN2~4 Loading



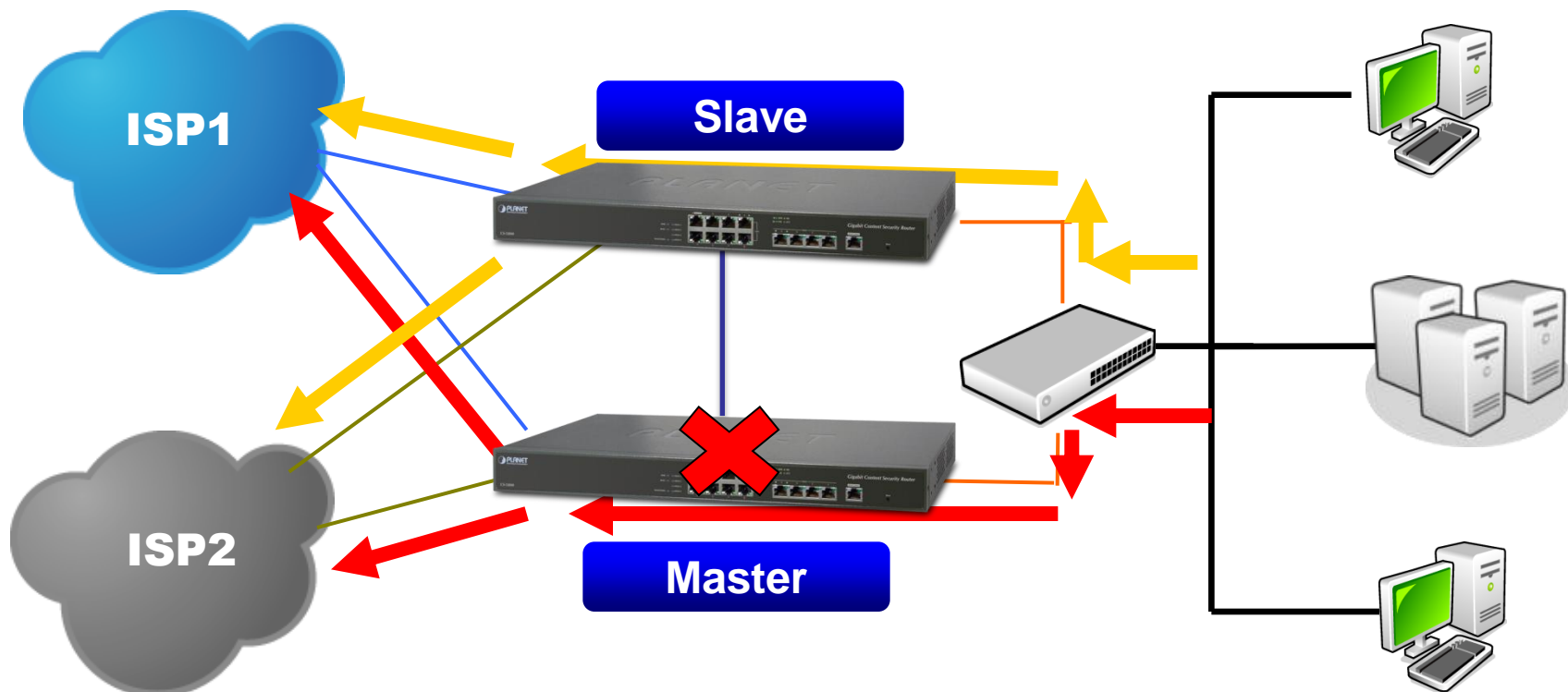
Multi-WAN Ports
Network Traffic
Load Balancing



Product Features 4/14

◆ HA (High Available)

High Availability is adopted in the network that requires fault tolerance and **backup mechanism**. Two similar devices are used to be the backup for each other.



Product Features – Security & QoS

◆ Bandwidth Management

- ✓ **Guaranteed** Bandwidth
- ✓ **Max.Bandwidth**
- ✓ **Session Limit**
- ✓ **Port-Based** QoS

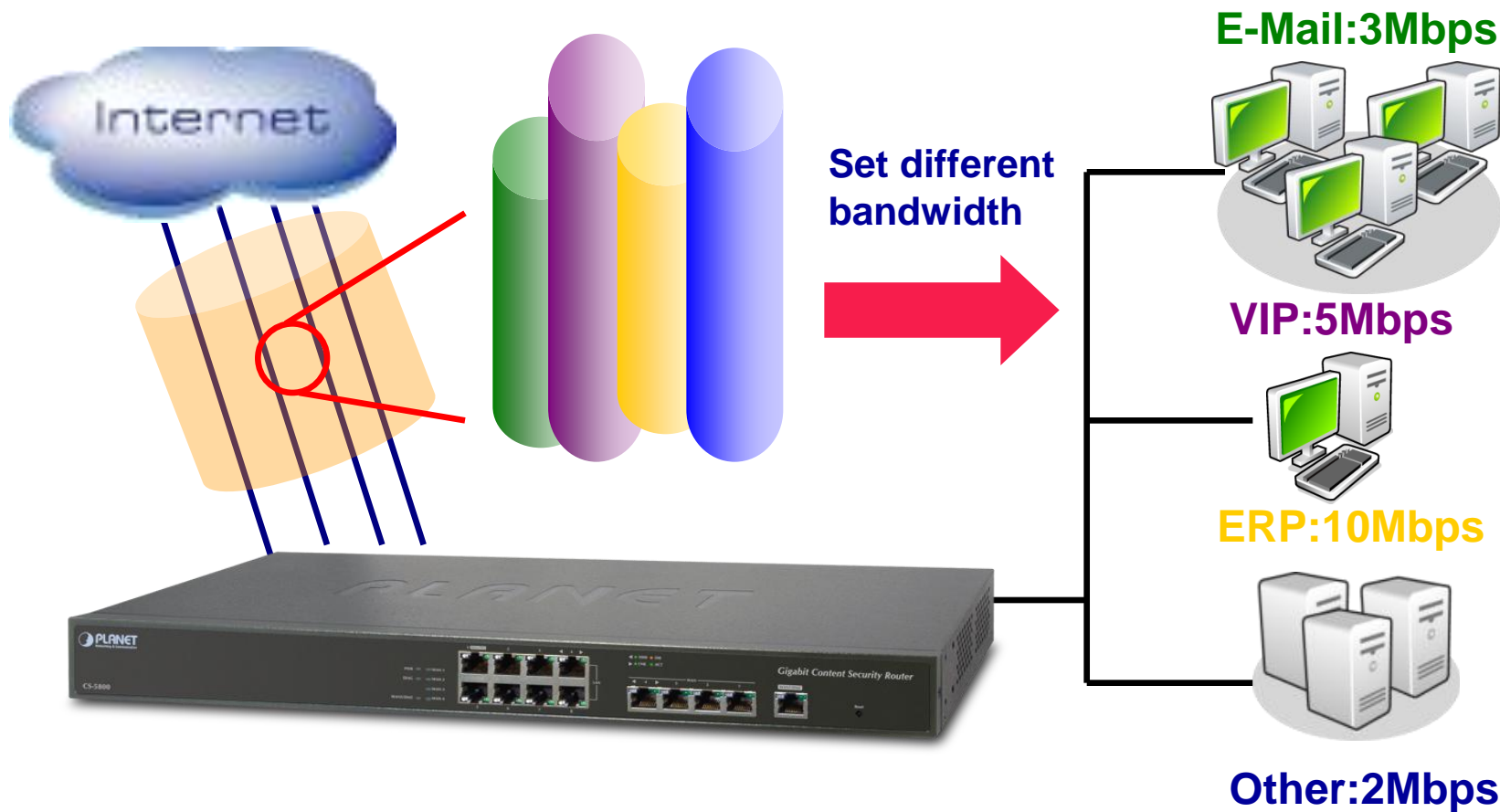
◆ Security

- ✓ **SPI (Stateful Packet Inspection)** Firewall
- ✓ **DoS (Denial of Service)** prevention
- ✓ **IP & Port** filtering
- ✓ **DMZ** Host
- ✓ Prevents **ARP Attack** on LAN

Product Features 5/14

◆ Bandwidth Management

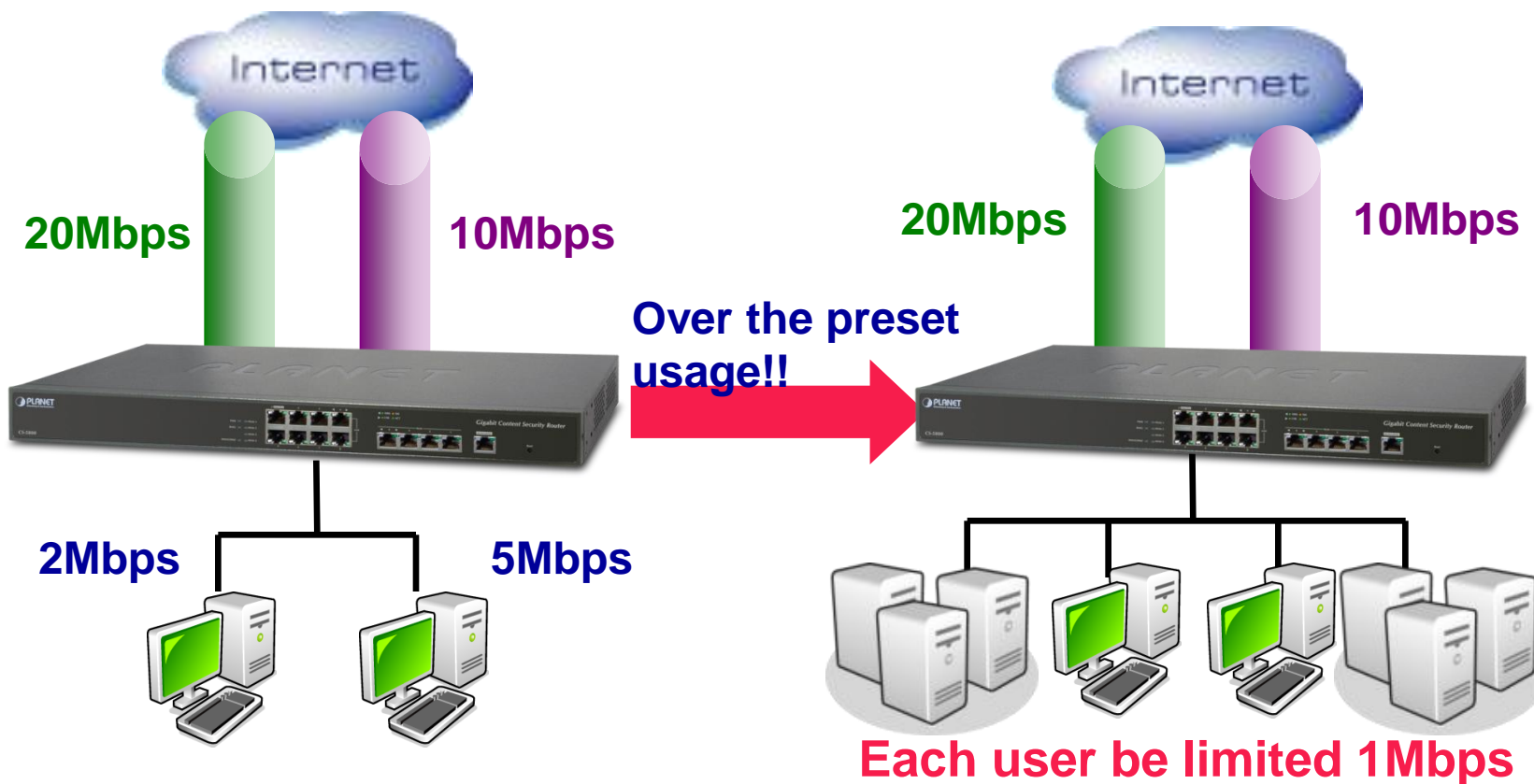
According to the **IP and service (port)** to ensure the important application.



Product Features 6/14

◆ Smart QoS

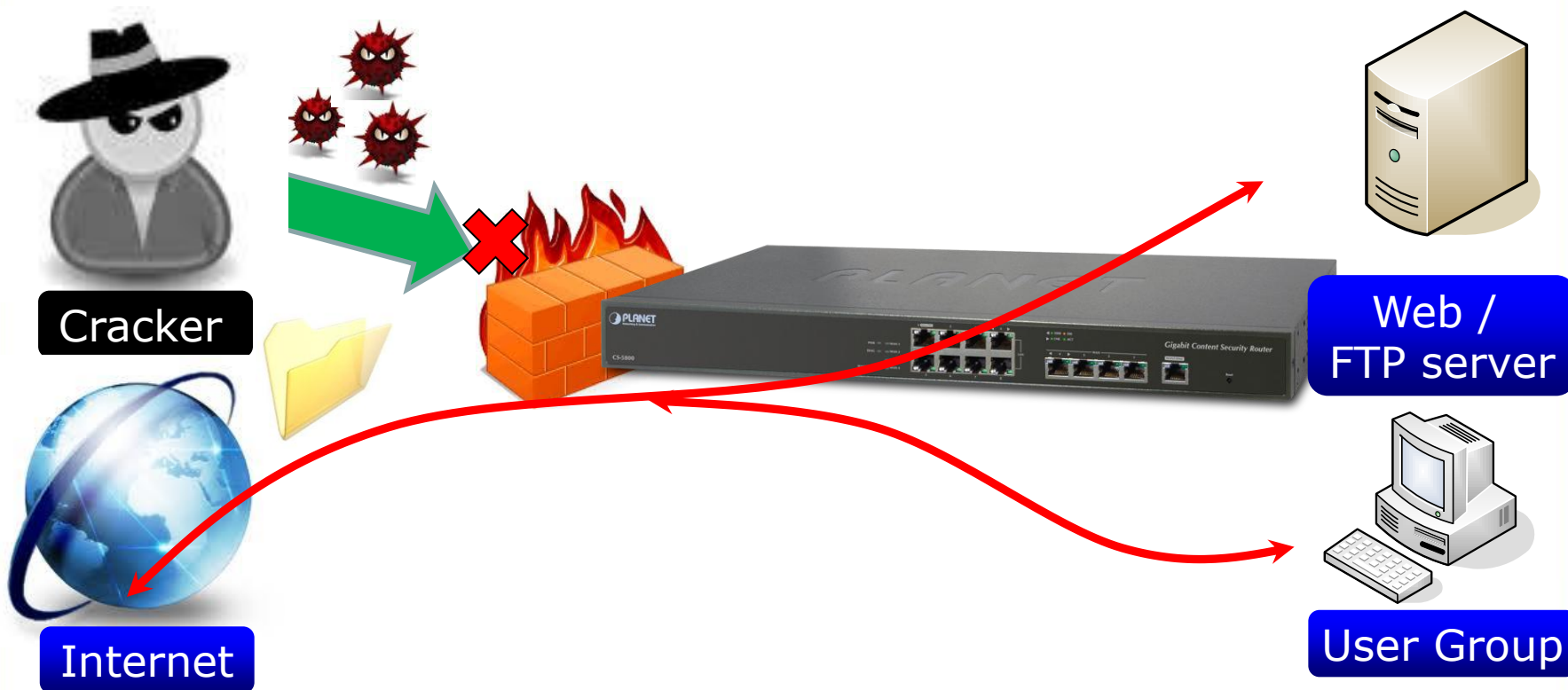
When the bandwidth usage over the set percent, the smart QoS will enabled automatically to **limit each users bandwidth.**



Product Features 7/14

◆ SPI Firewall/DoS Prevent

The SPI firewall have check and filter the abnormal packet ,the DoS prevent will protect the user avoid the **DoS / DDoS attack**.



Product Features – VPN & VLAN

◆ VPN Feature*

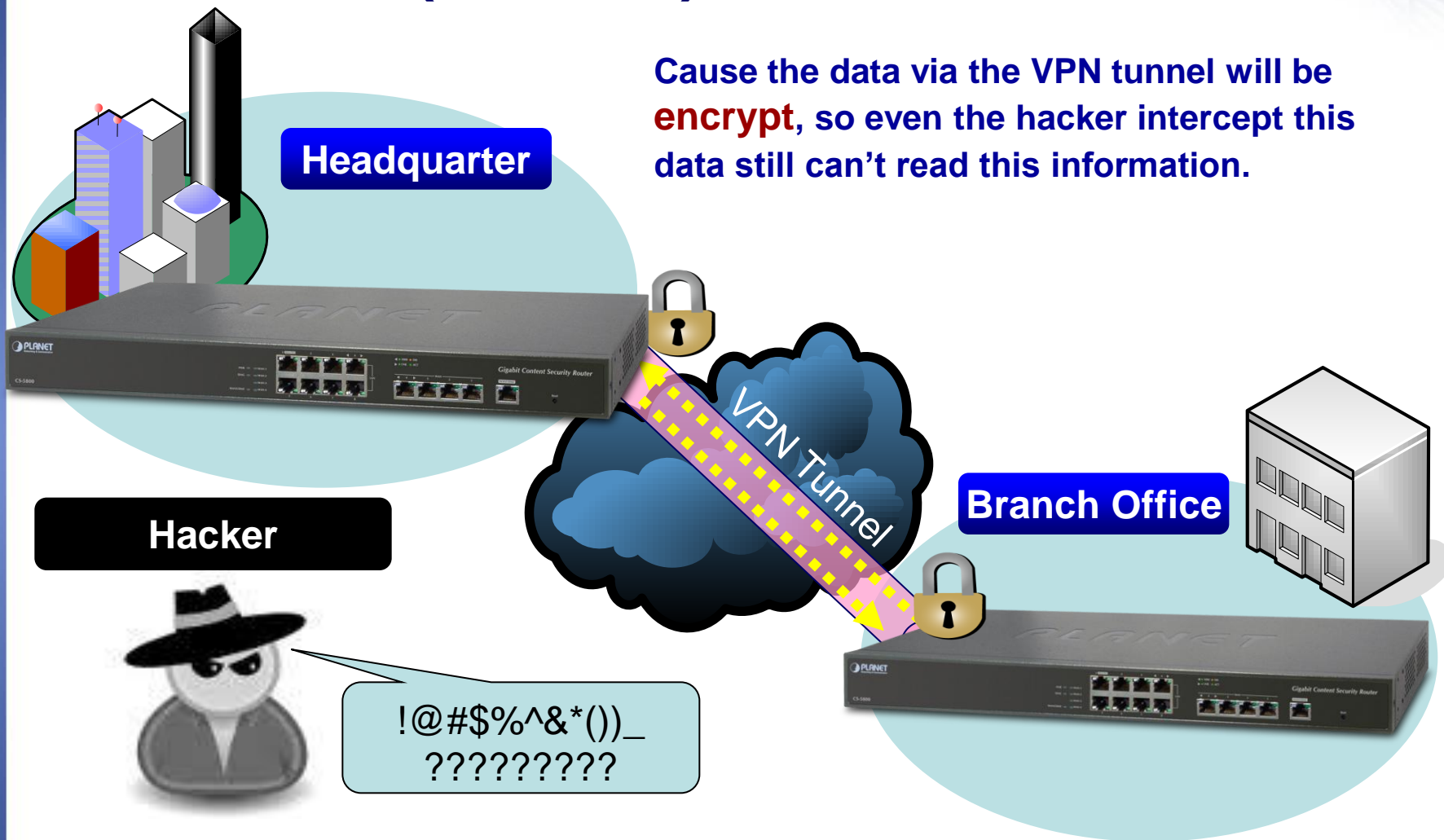
- ✓ **IPSec, PPTP and L2TP** Pass through
- ✓ Supports IPSec
 - IPSec Hardware acceleration
 - IPSec *Encryption DES / 3DES / AES128 / AES192 / AES256*
 - IPSec *Authentication MD5 / SHA1*
- ✓ VPN Hub

◆ Support VLAN

- ✓ **IEEE 802.1Q Tagged VLAN** on WAN port*
- ✓ Port VLAN

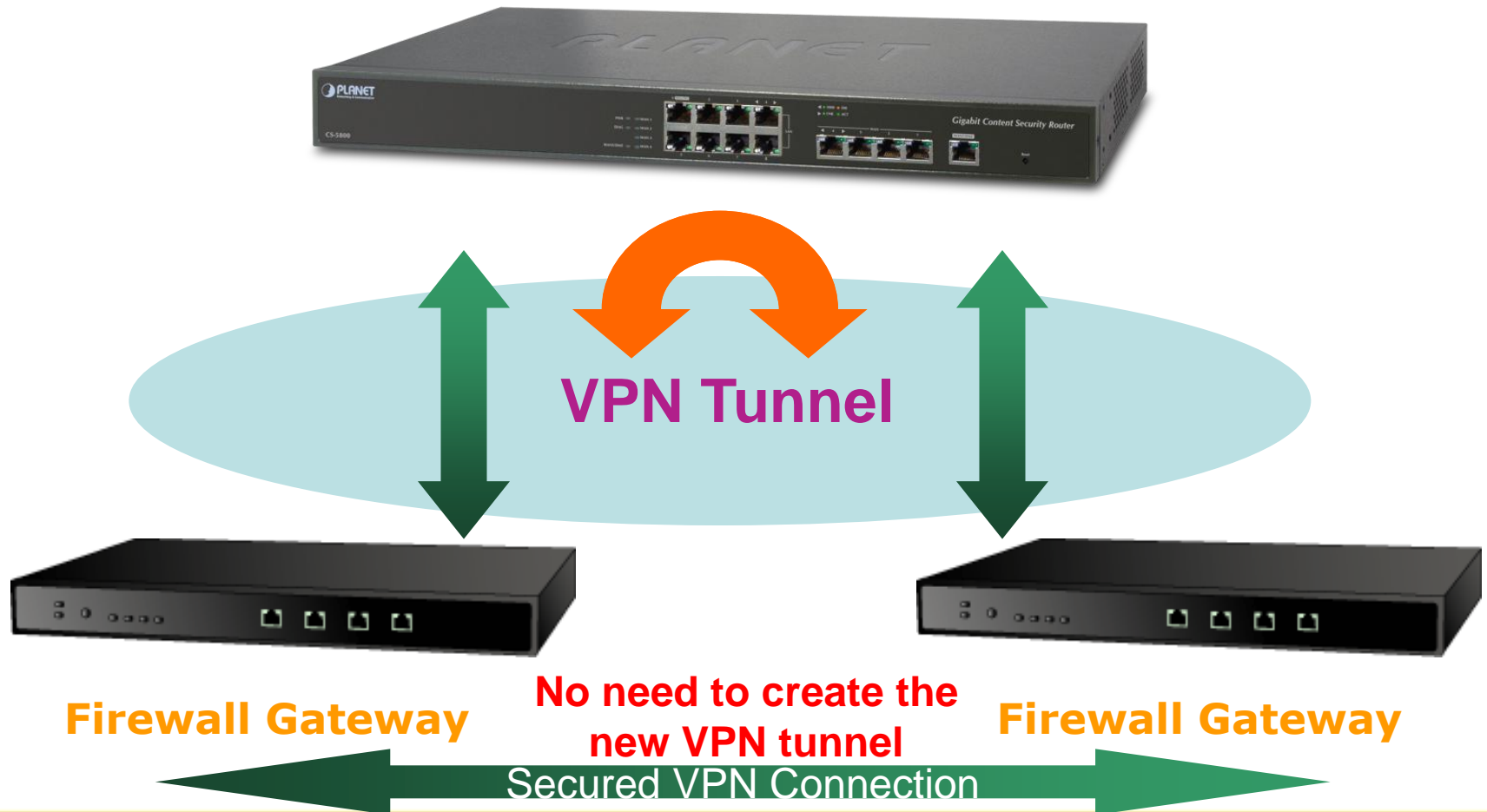
Product Feature 8/14

◆ IPsec VPN (Site to Site)



Product Features 9/14

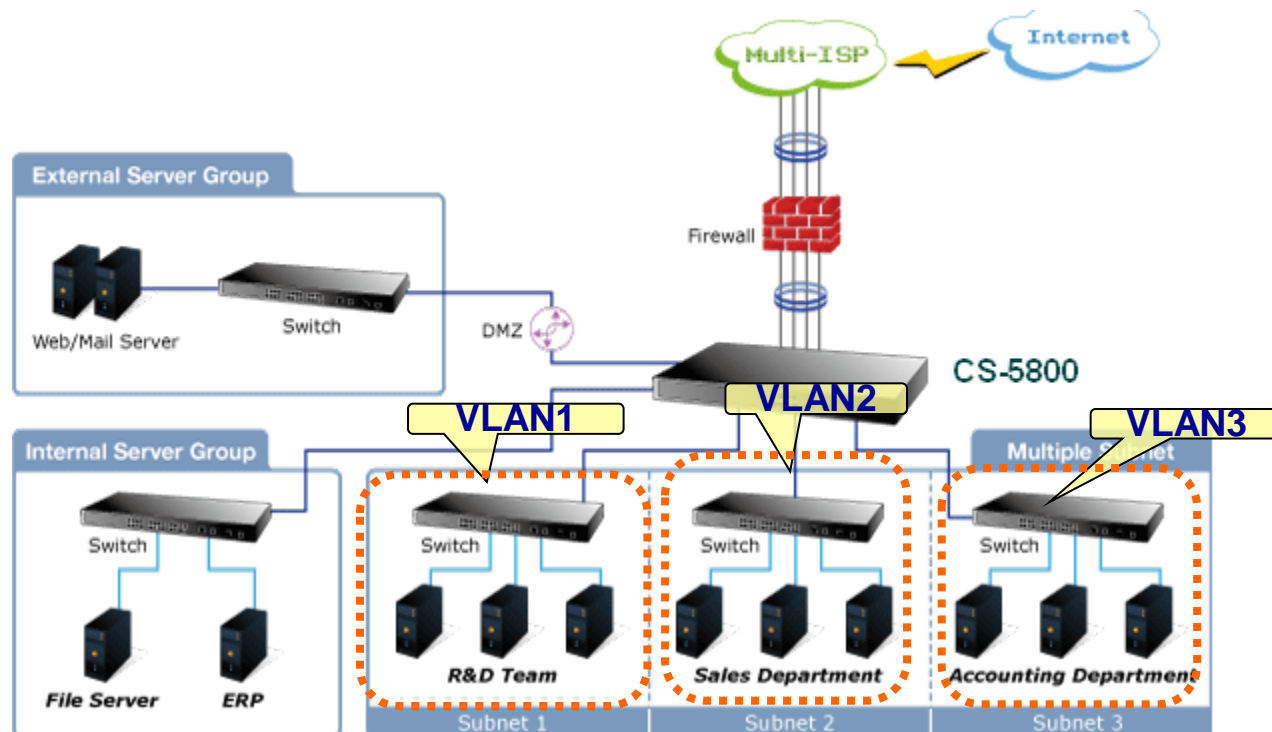
◆ VPN Hub



Product Features 10/14

◆ Port VLAN

The manager can via the Port VLAN feature collocate with the **multiple subnet** to manage the network.



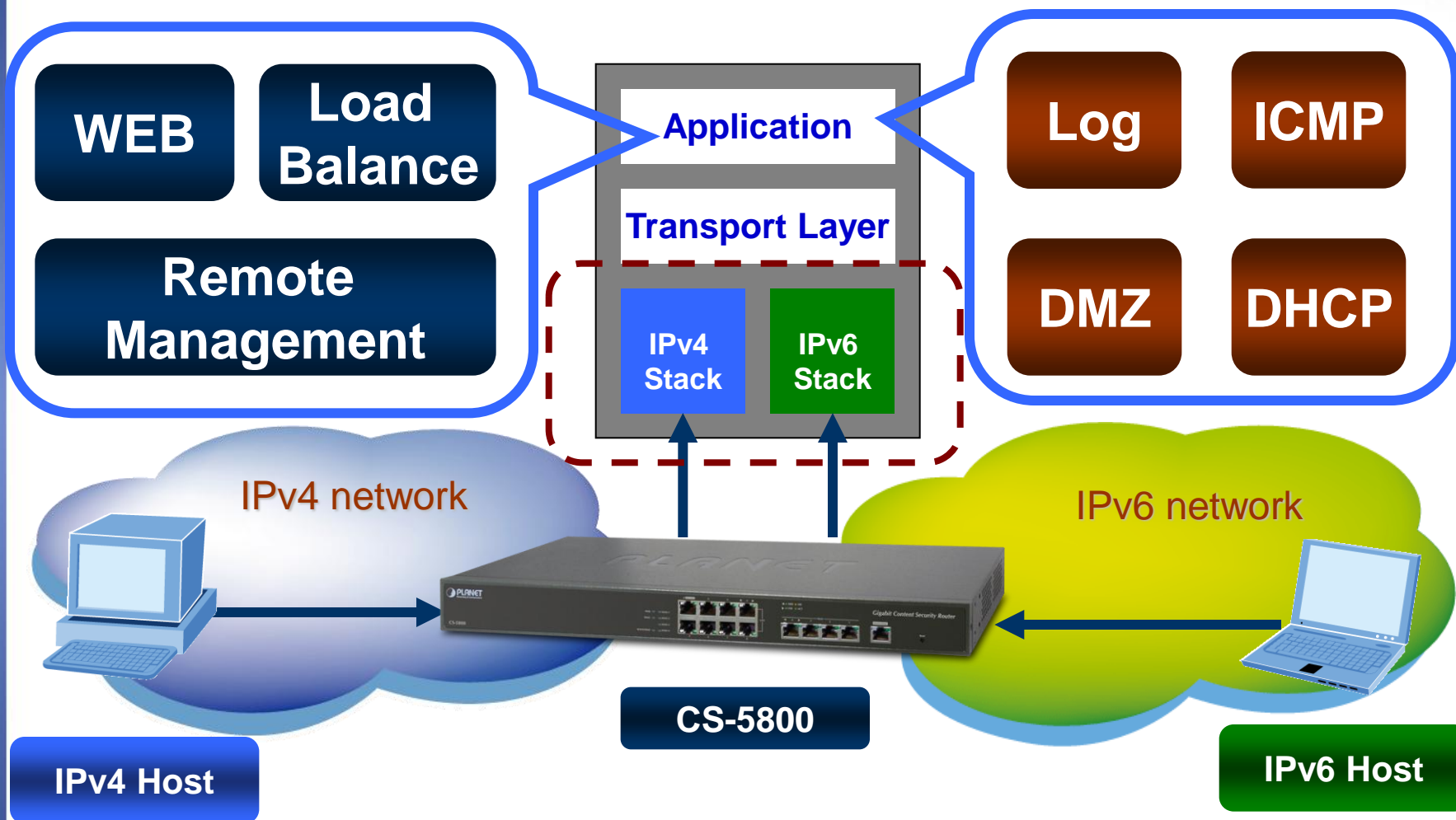
Product Features - Management

◆ Full Management

- ✓ **IPv4 / IPv6** Dual Stack
- ✓ Standard-based Management
 - WEB-based
 - SNMP v1 and v2c
 - Remote management
- ✓ Content Filter
 - Restrict Application
 - Download/Upload blocking
 - URLs/Scripts Filter
- ✓ Statistic
 - Traffic Graphic statistic
 - Monitoring, Logging, and Alarms of system activities

Product Features 11/14

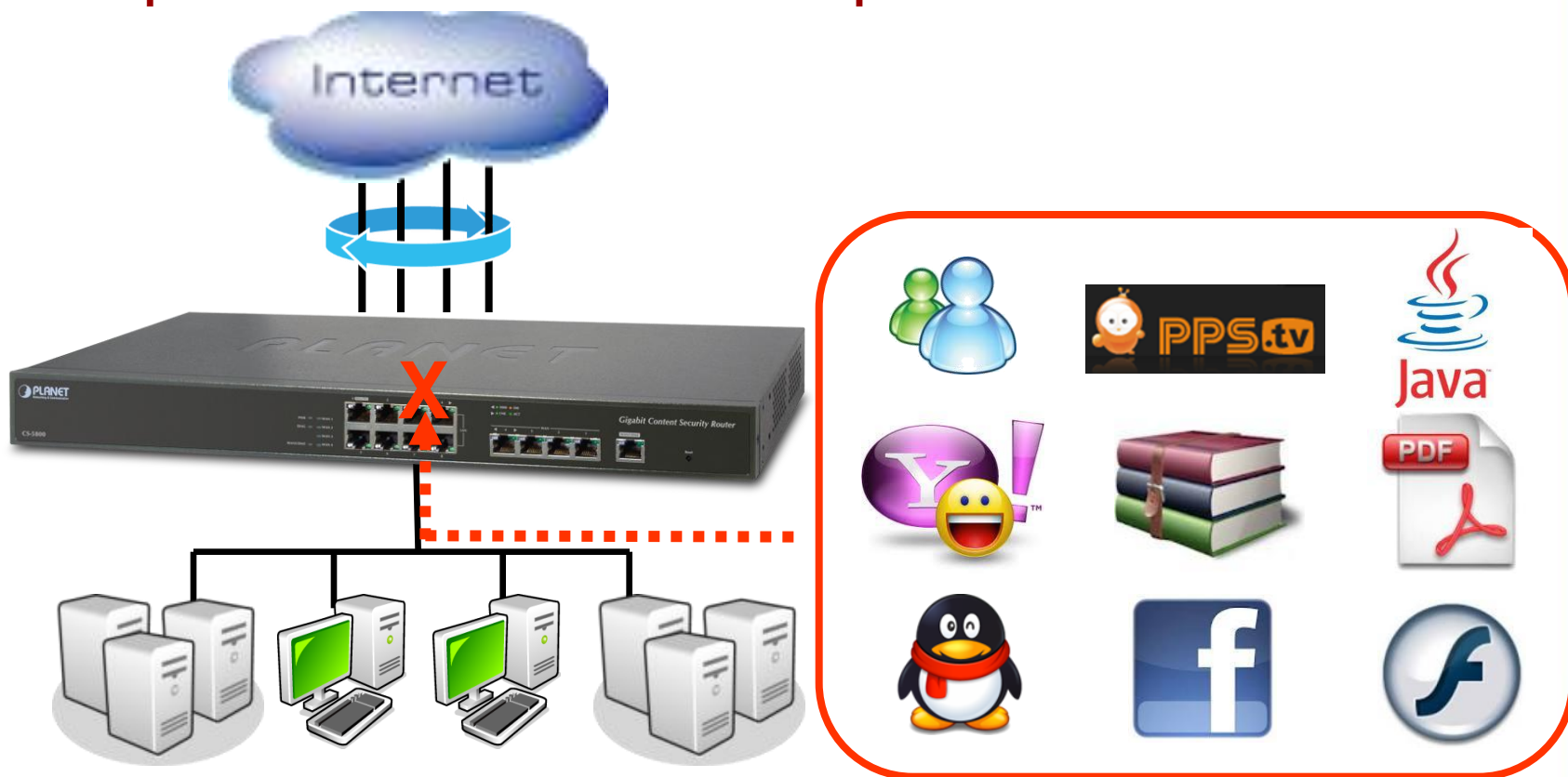
◆ IPv6 / IPv4 Dual Stack



Product Features 12/14

◆ Content Filter*

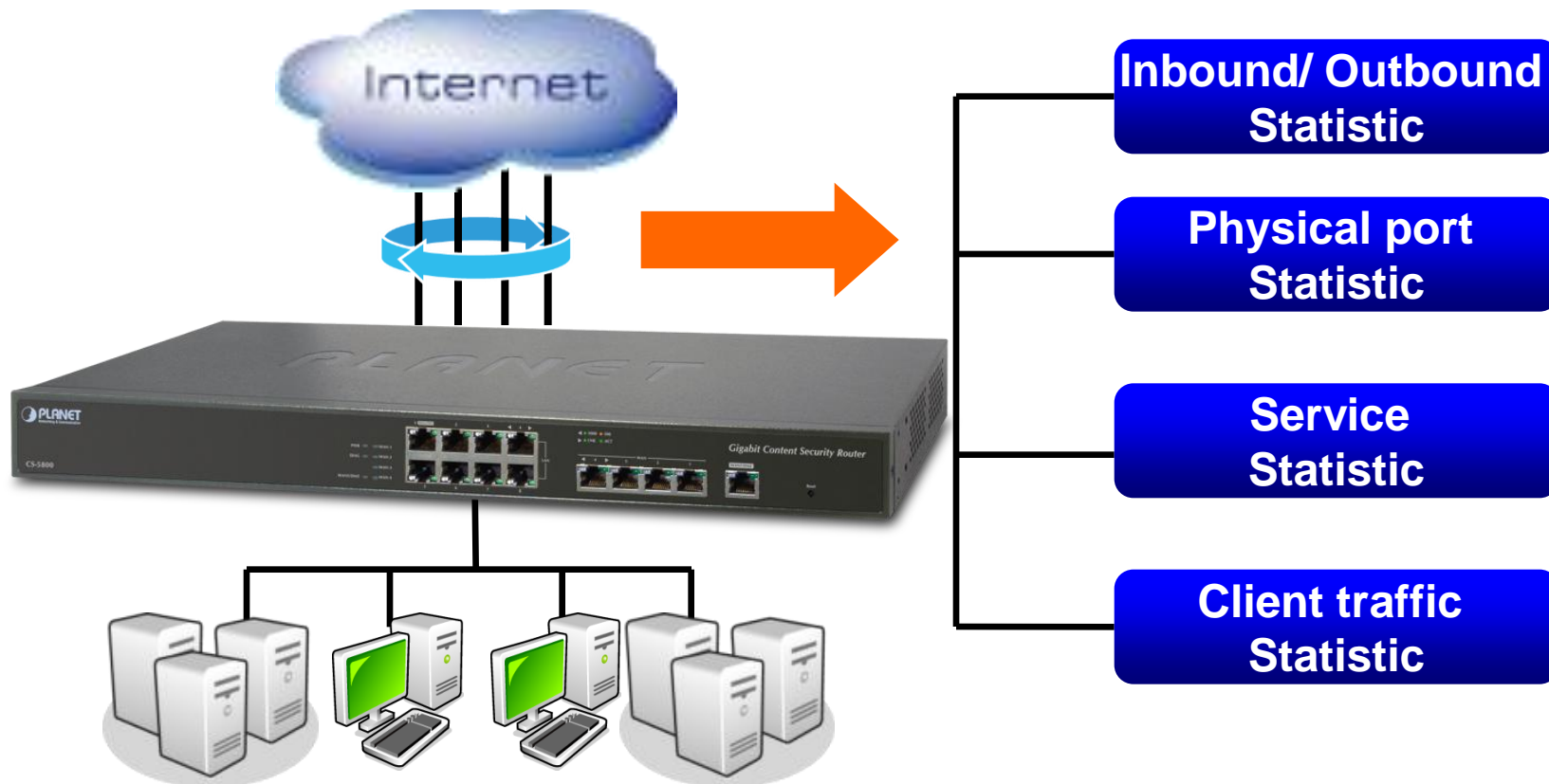
The content filter feature can **block the P2P , IM software and the specified file extension as .exe or .pdf.**



Product Features 13/14

◆ Traffic Statistic

Network manager can **observe the user's traffic usage and the behavior**, It help the manager to make the bandwidth of the network distribute easily.



Product Features 14/14

◆ Management

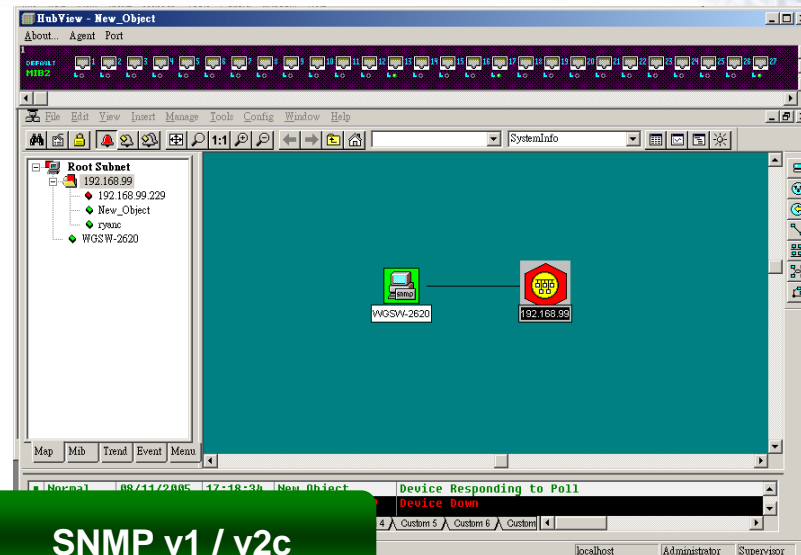
The CS-5800 provide the **SNMP** and **http web management**, the manager can supervise this device easily.



Compliant with many web browser.



TCP/IP



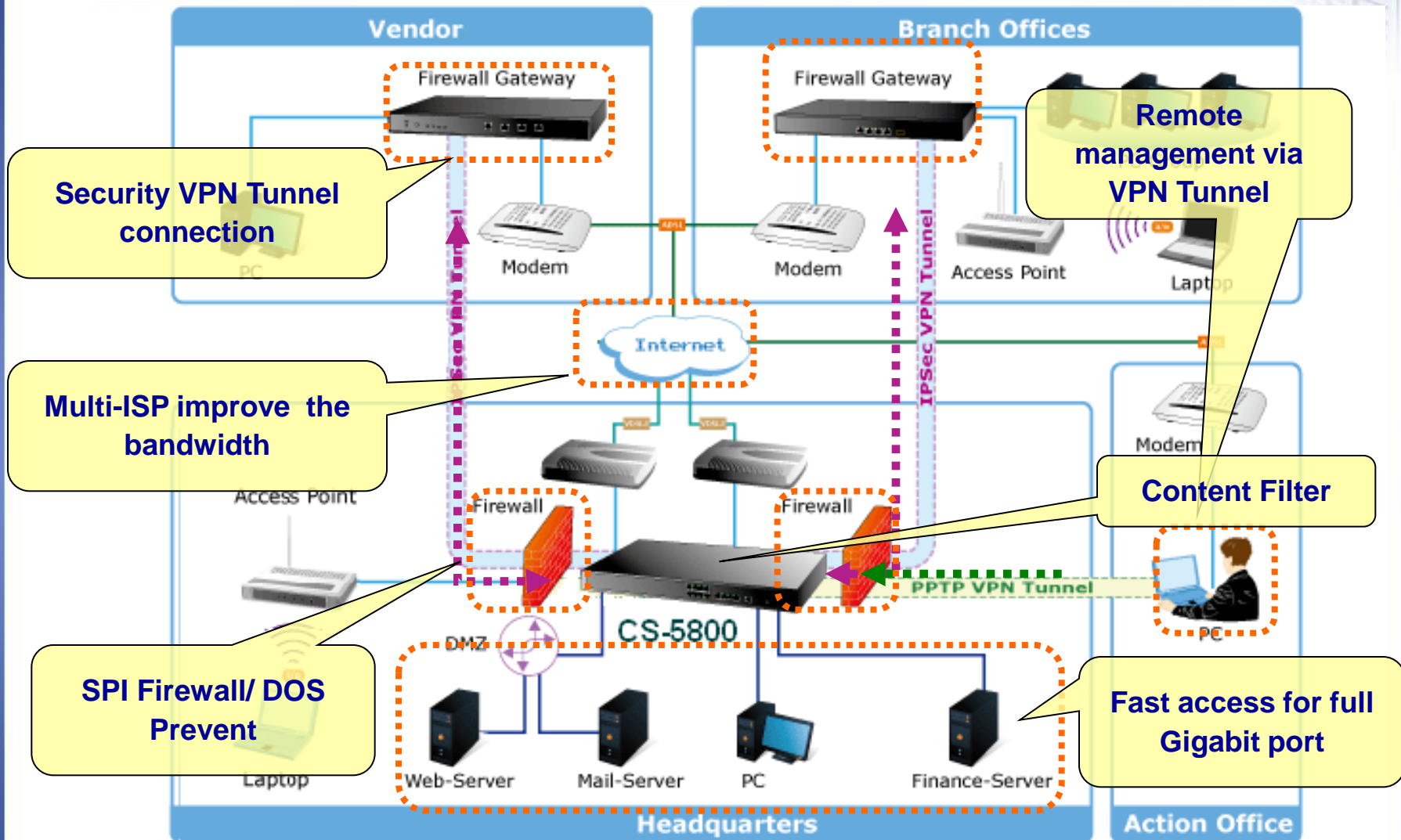
SNMP v1 / v2c

TCP/IP

| IPv4 | | IPv6 | | | |
|----------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|------------------|
| Interface | WAN 1 | WAN 2 | WAN 3 | WAN 4 | DMZ |
| WAN IP Address | 192.168.4.195 | 0.0.0.0 | 0.0.0.0 | 0.0.0.0 | 0.0.0.0 |
| Default Gateway | 192.168.4.1 | 0.0.0.0 | 0.0.0.0 | 0.0.0.0 | --- |
| DNS | 192.168.5.121 192.168.5.120 | 0.0.0.0 | 0.0.0.0 | 0.0.0.0 | --- |
| Downstream Bandwidth Usage | 0 | 0 | 0 | 0 | 0 |
| Upstream Bandwidth Usage | 0 | 0 | 0 | 0 | 0 |
| DDNS Setup | Dyndns Disabled 3322 Disabled | Dyndns Disabled 3322 Disabled | Dyndns Disabled 3322 Disabled | Dyndns Disabled 3322 Disabled | --- |
| | rules set | 0 rules set | 0 rules set | 0 rules set | --- |
| | Release Renew | Release Renew | Release Renew | Release Renew | Release Renew |

HTTP Web Management (IPv4/IPv6)

Product Feature-summary



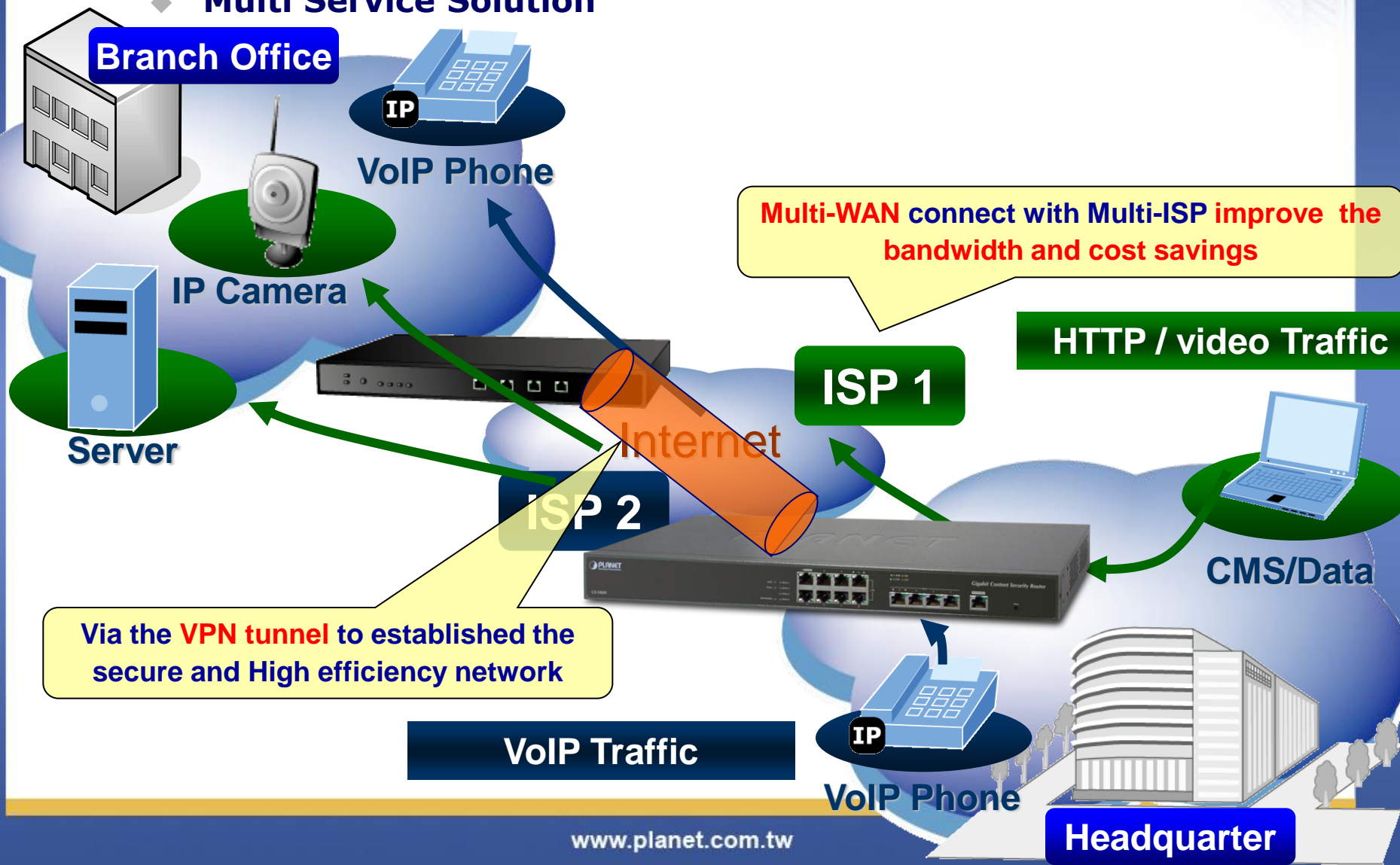
Product Application

◆ **Headquarter-Branch Office Remote Multi Service Solution**

- ✓ A company locates in Taipei ,Taiwan and its branch office is in New York, US. The two places needs many service like VoIP, Video conference, data transmission and IP surveillance to communicate with each other. The MIS manager needs some product to accord with those demand:
 - **Extend the bandwidth and make a cost-effective network**
 - **Stable network connection(fail over)**
 - **The reliable VPN connection**
 - **Use the bandwidth management mechanism (QoS) to ensure the average bandwidth for each user**



Product Application

◆ Multi Service Solution



Product Comparison

◆ External Comparison

| Model | PLANET CS-5800 | Draytek Vigor3300 |
|----------------------|--|--|
| Product Photo |  |  |
| Hardware | | |
| Processor | Cavium CN3120-500MHz | Unknow |
| RAM | 1G DDR2 MB | Unknow |
| Flash | 32 MB | Unknow |
| Dimension | Desktop/19 inch rack | Desktop/19 inch rack |
| Network port | 5 x WAN(1 x configurable for DMZ) 8 x LAN (All Giga ports) | 3 x WAN 10/100 Ethernet (1 x configurable for DMZ) 4 x LAN 10/100 Ethernet 1 x Console Port |
| System Performance | | |
| Firewall performance | 1Gbps | Unknow |
| 3DES performance | 154Mbps | Unknow |
| Concurrent Session | 40,000 | Unknow |

Product Comparison

◆ External Comparison

| Model | PLANET CS-5800 | Draytek Vigor3300 |
|-----------------------|---------------------------|------------------------------|
| Firewall | | |
| Content Filtering | Yes | Yes |
| Policy-based Firewall | Yes | Yes |
| SPI Firewall | Yes | Yes |
| VPN Feature | | |
| VPN Tunnel | IPSec : 200 PPTP : 60 | IPSec : 200 PPTP : Unknow |
| VPN Hub | Yes | - |
| Management | | |
| WAN Load balancing | Outbound / Inbound | Outbound |
| High Availability | Yes | Yes |
| Statistics | Traffic statistic | - |
| SNMP | SNMP v1, v2c | Yes |
| QoS | Yes | Yes |
| Alert by email | Yes | Yes |
| IPv6 | Yes | - |
| VLAN | Port VLAN,802.1Q VLAN tag | Port VLAN,802.1Q VLAN tag |
| Dynamic routing | RIPv1/2 , Strategic Route | RIPv1/2 , Static Routing |

Appendix - Sales Target

◆ Target Markets

- ✓ SMB/ Enterprise Office Security
- ✓ Reseller

◆ Target Customers

- ✓ Who buy our Security Gateway
 - SG-1000/SG-4800
- ✓ Who buy our Multi-Homing Security Gateway
 - MH-3400/MH-2001
 - VRT-420N
- ✓ Who buy our UTM Content Security Gateway
 - CS-1000/CS-2001





ACTIVATING IP POWER